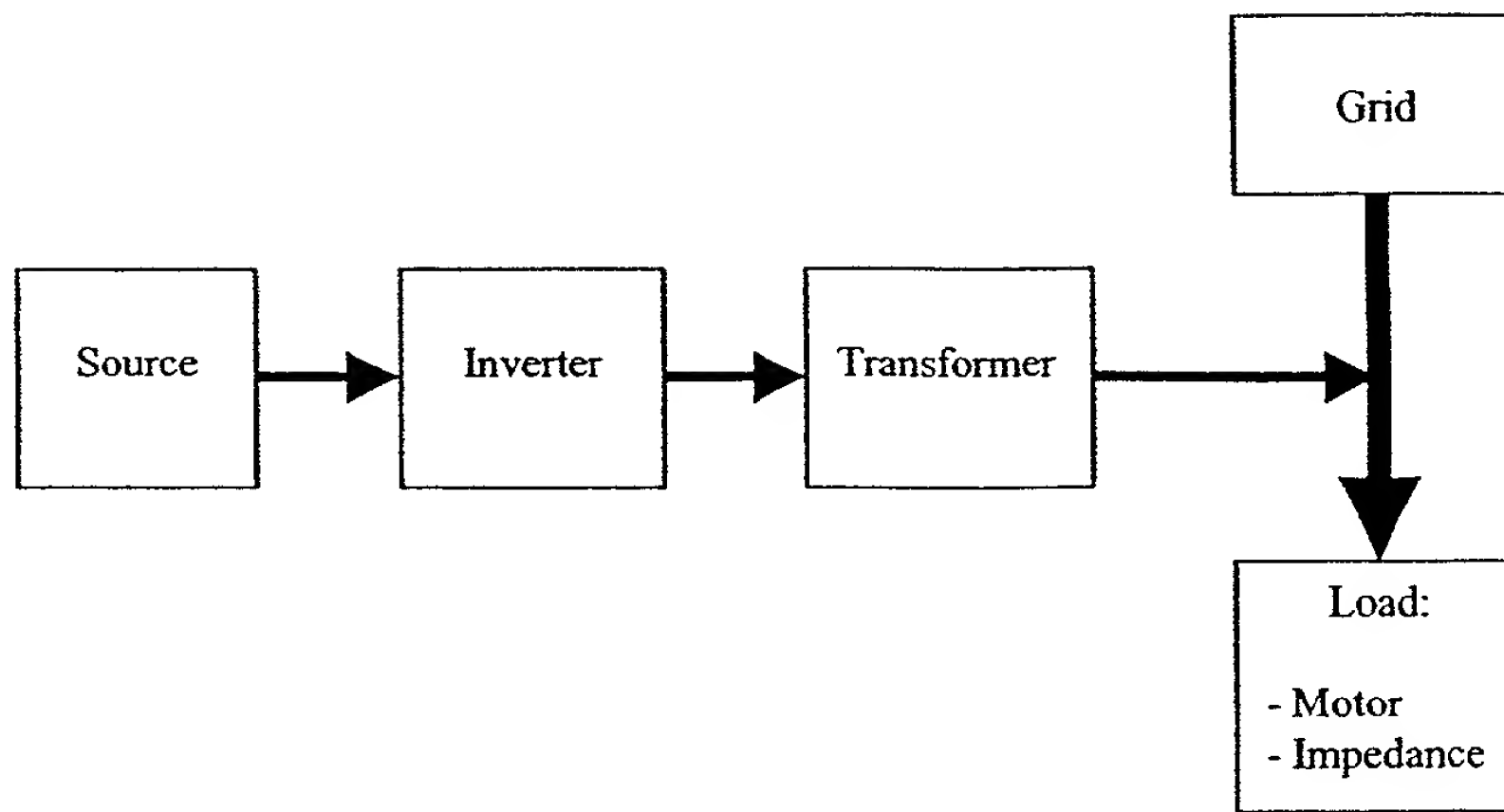


FIG. 1





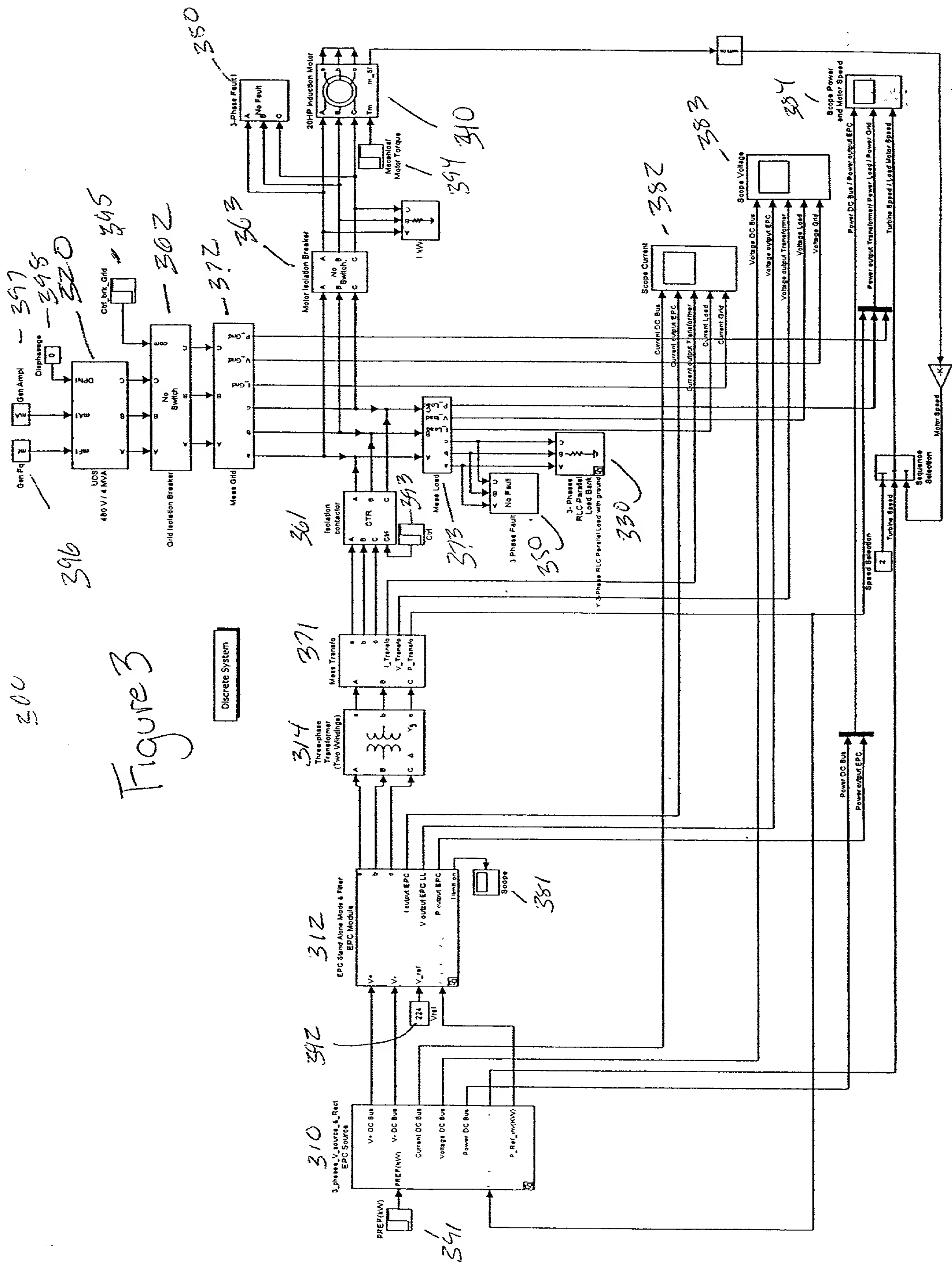


Figure 3

```

Grid Mode:
Specify: Ts = 25e-6, ND = 10, KS = 10
Execute: param_lpu, param_pmg, param_turb
Initial conditions: 75 kW --> load ltg_avg_75 (xlnlt_75)
0 kW --> load ltg_avg_0 (xlnlt_0)

```

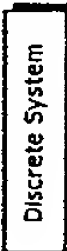
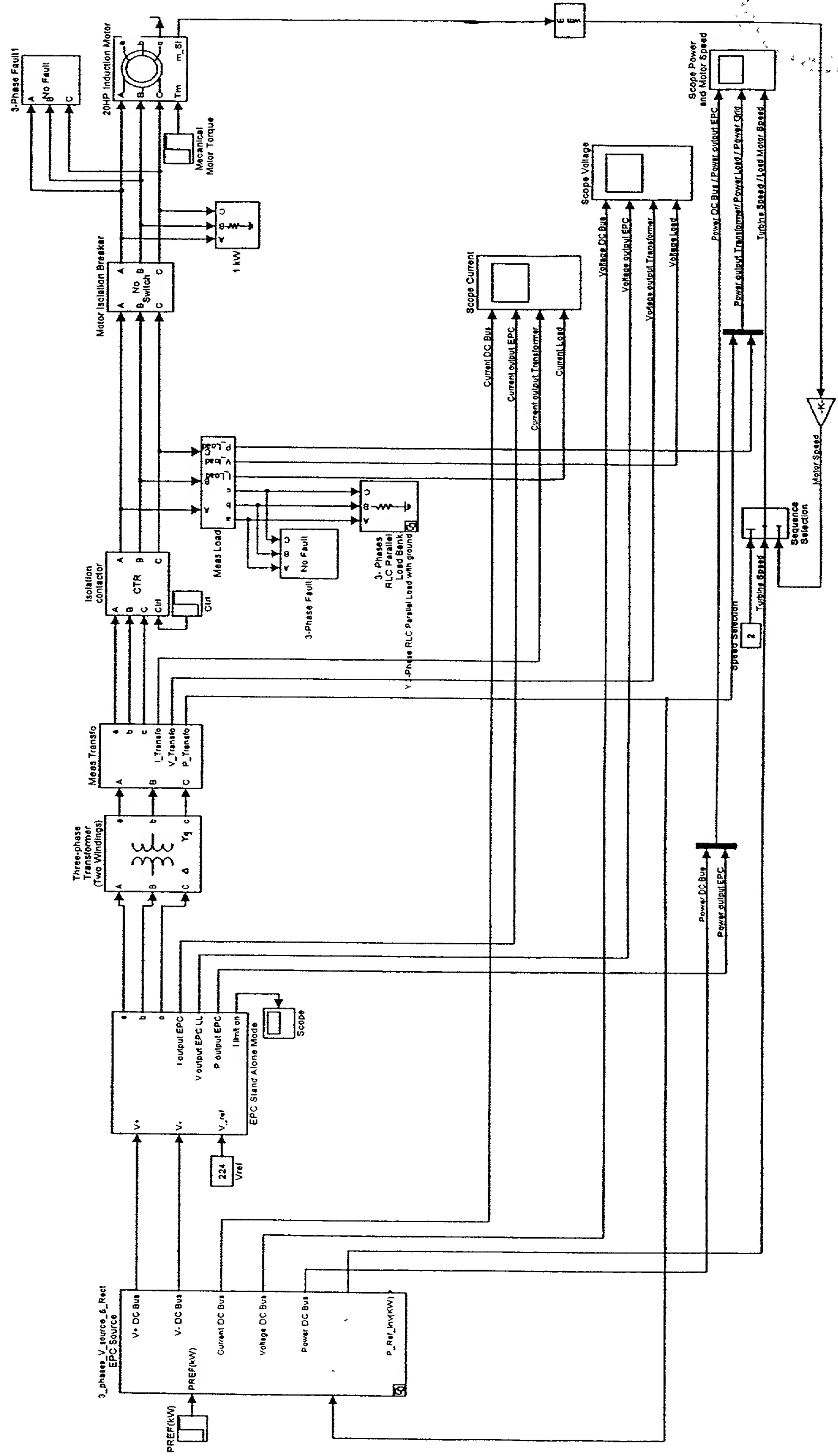


Figure 5

### Discrete System



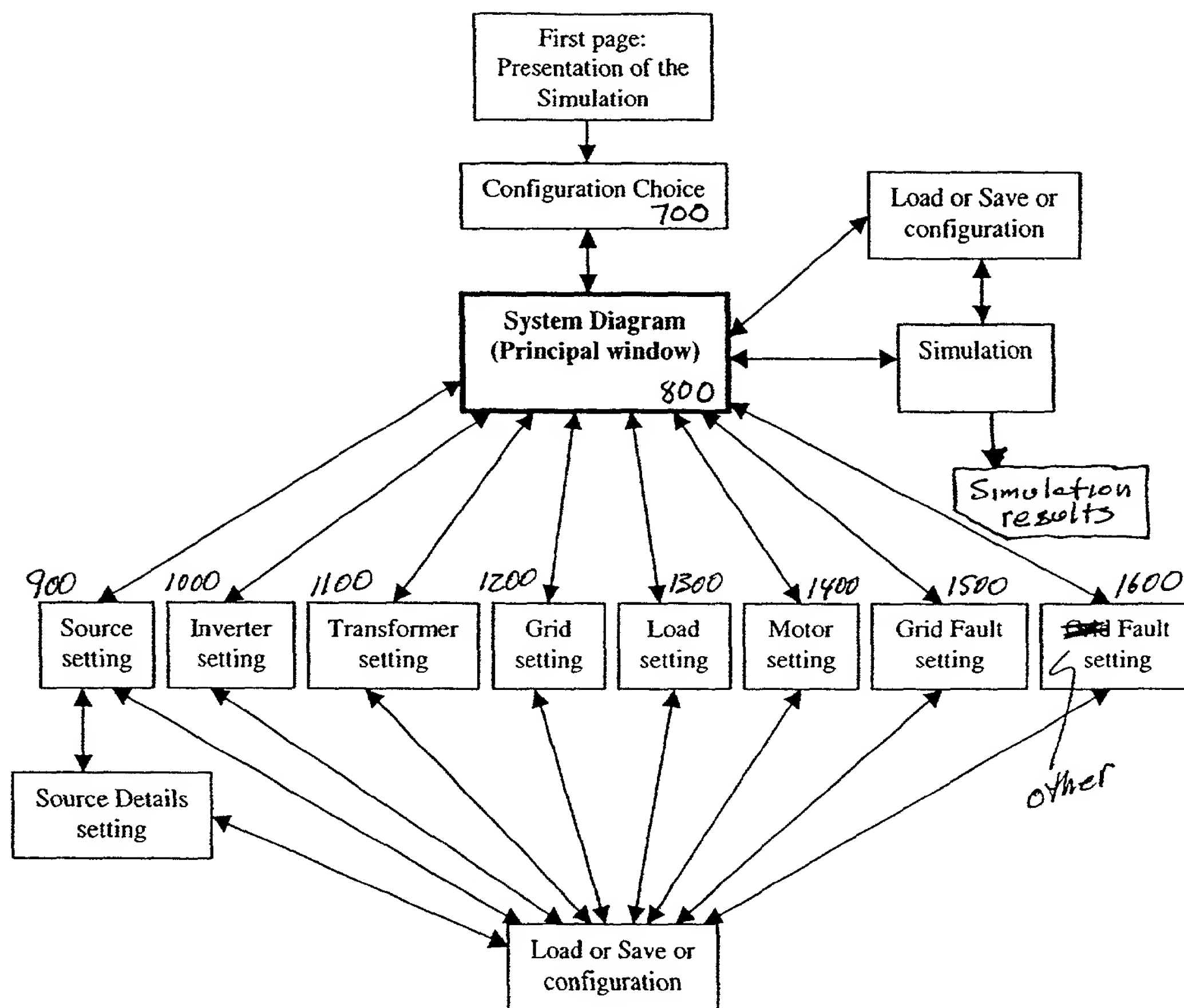


FIGURE 6





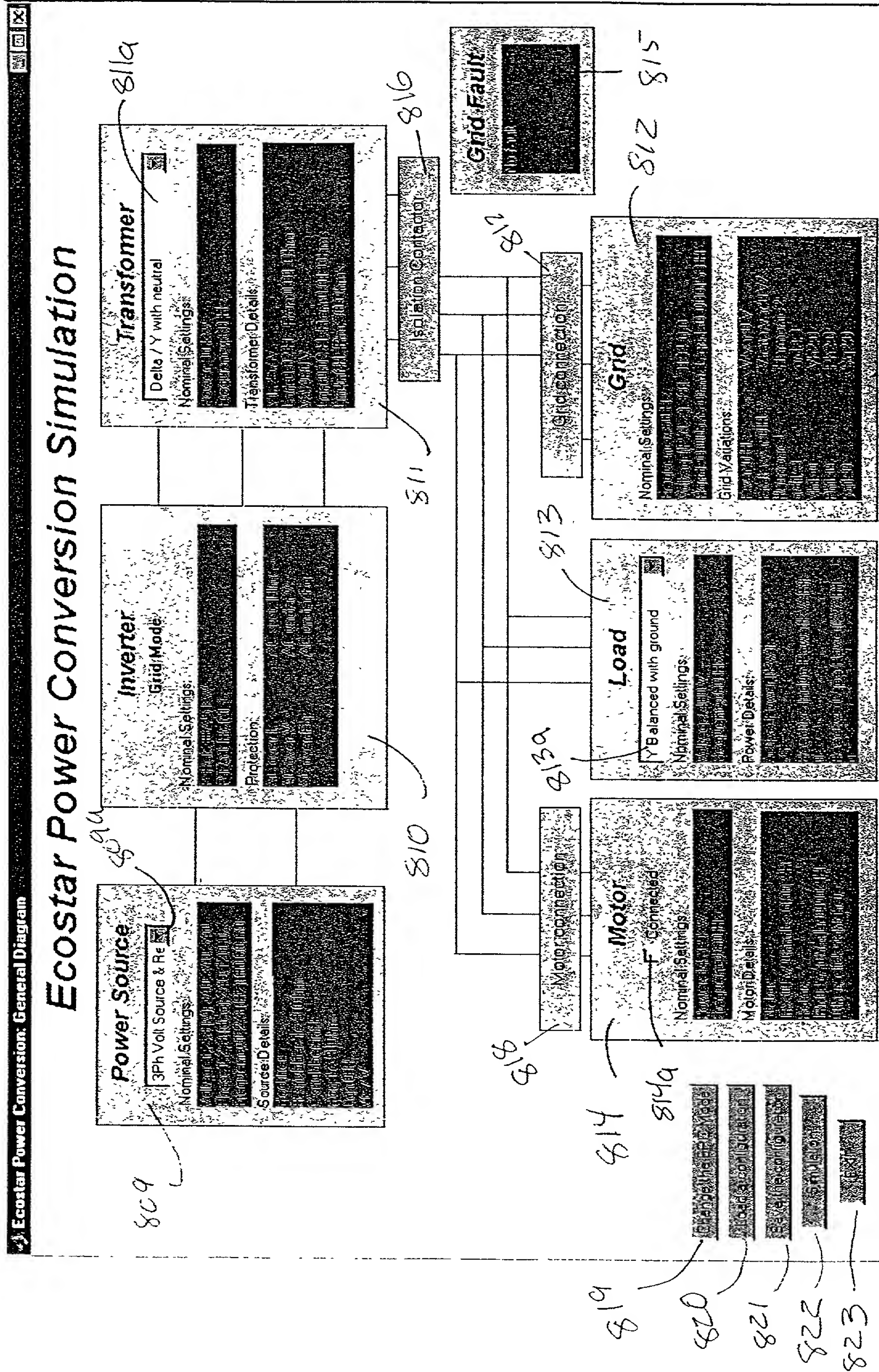


FIGURE 8



1361034960

Source setting:

SOURCE

Load configuration

Save this configuration

Source

3Ph Volt Source & Rect

Source Details

Snubber R: 1e-9 Ohms  
Snubber C: inf F  
R on 1e-9 Ohms  
L on 0 H  
V: 7 V

Nominal settings

Voltage 1 (Peak Amplitude)

340

300V

400V

Frequency 1

60

45Hz

100Hz

Voltage 2 (Peak Amplitude)

340

300V

400V

Frequency 2

60

45Hz

100Hz

Voltage 3 (Peak Amplitude)

340

300V

400V

Frequency 3

60

45Hz

100Hz

OK

900

900

900

FIGURE 9 a

Source Details setting:

# SOURCE Details

Load configuration Save the configuration

Snubber R	1e-9	910	Res	1e-9	Diode Voltage Drop	.7
0 Ohms	10 Ohms	0 Ohms	0 Ohms	10 Ohms	0V	5V
Snubber C	inf	912	Cap	0		
1e-9 F	inf	inf	0H	1e-9 H		

OK

Figure 9b



Figure 10

Figure 11



Grid setting:

GRID

Grid setting / Simulation

Save as default

Nominal settings

Grid Variation

Frequency

60

45 Hz

1

65 Hz

Voltage Mag Var Amplitude

0

0 V

1

40 V

Voltage Mag Var Rate

0

0 V/s

1

20 V/s

Frequency Var Amplitude

0

0 Hz

1

10 Hz

Frequency Var Rate

0

0 Hz/s

1

10 Hz/s

Voltage Positive Insertion

391.918

326 V

1

45 V

Voltage Negative Insertion

0

0 V

1

45 V

Voltage Zero Insertion

0

0 V

1

45 V

Temp Insertion 1

0

0 V

1

56 V

Temp Insertion 2

0

0 V

1

56 V

Phase

0

0 deg

1

360 deg

Seq

5

Seq

2

Seq

7

Seq

0

The amplitude is the peak amplitude

OK

Figure 12



1061 4033360

Load setting: [OK] [Cancel]

**LOAD**

Load Type: Y Unbalanced without ground

NOMINAL SETTING

Nominal voltage: 480 V [OK] [Cancel] 480V

Frequency: 60 Hz [OK] [Cancel] 60Hz

ACTIVE POWER

Phase1: 15 kW [OK] [Cancel] 15kW

Phase2: 10 kW [OK] [Cancel] 10kW

Phase3: 5 kW [OK] [Cancel] 5kW

REACTIVE INDUCTIVE POWER

Phase1: 0 kVAR [OK] [Cancel] 0kVAR

Phase2: 0 kVAR [OK] [Cancel] 0kVAR

Phase3: 0 kVAR [OK] [Cancel] 0kVAR

REACTIVE CAPACITIVE POWER

Phase1: 0 kVAR [OK] [Cancel] 0kVAR

Phase2: 0 kVAR [OK] [Cancel] 0kVAR

Phase3: 0 kVAR [OK] [Cancel] 0kVAR

[OK]

Figure 13



[illegible]

Motor setting:

MIOTOR

Used applications

Save the configuration

Nominal settings

Power

50kW

☒

200kW

☒

300V

☒

800V

☒

Voltage

45Hz

☒

65Hz

☒

Frequency

0Hz

☒

1e-6Hz

☒

Mutual Inductance (mH)

0H

☒

1e-6H

☒

Stator

Rs (Ohm)

10 Ohms

☒

50 Ohms

☒

Ls (H)

0H

☒

1e-6H

☒

Rr (Ohm)

10 Ohms

☒

50 Ohms

☒

Lr (H)

0H

☒

1e-6H

☒

Mechanical

Inertia

300V

☒

800V

☒

10 Ohms

☒

50 Ohms

☒

Friction Factor

1

☒

50

☒

Mechanical Torque

0H

☒

1e-6H

☒

Time of application

0H

☒

1e-6H

☒

Initial conditions

Slip

0H

☒

1e-6H

☒

Theta (deg)

0H

☒

1e-6H

☒

Isa (sp) (A)

0H

☒

1e-6H

☒

phi (deg) (deg)

0H

☒

1e-6H

☒

OK

Figure 14



0051

Figure 15

Figure 15



106724 40443850

Isolation Contactor setting:

## Motor Isolation Contactor

Initial Status (0=open, 1=closed) ☐ 0

Time Transition

Transition Status

Breaker Parallel Resistance (Ohm)  10 Ohms ☐ 50 Ohms

Breaker Series Resistance (Ohm)  10 Ohms ☐ 50 Ohms

OK

Load configuration  
Save configuration

1690

Figure 16

Change the System Mode

Load configuration

Save configuration

Load configuration

Save configuration

Year	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	

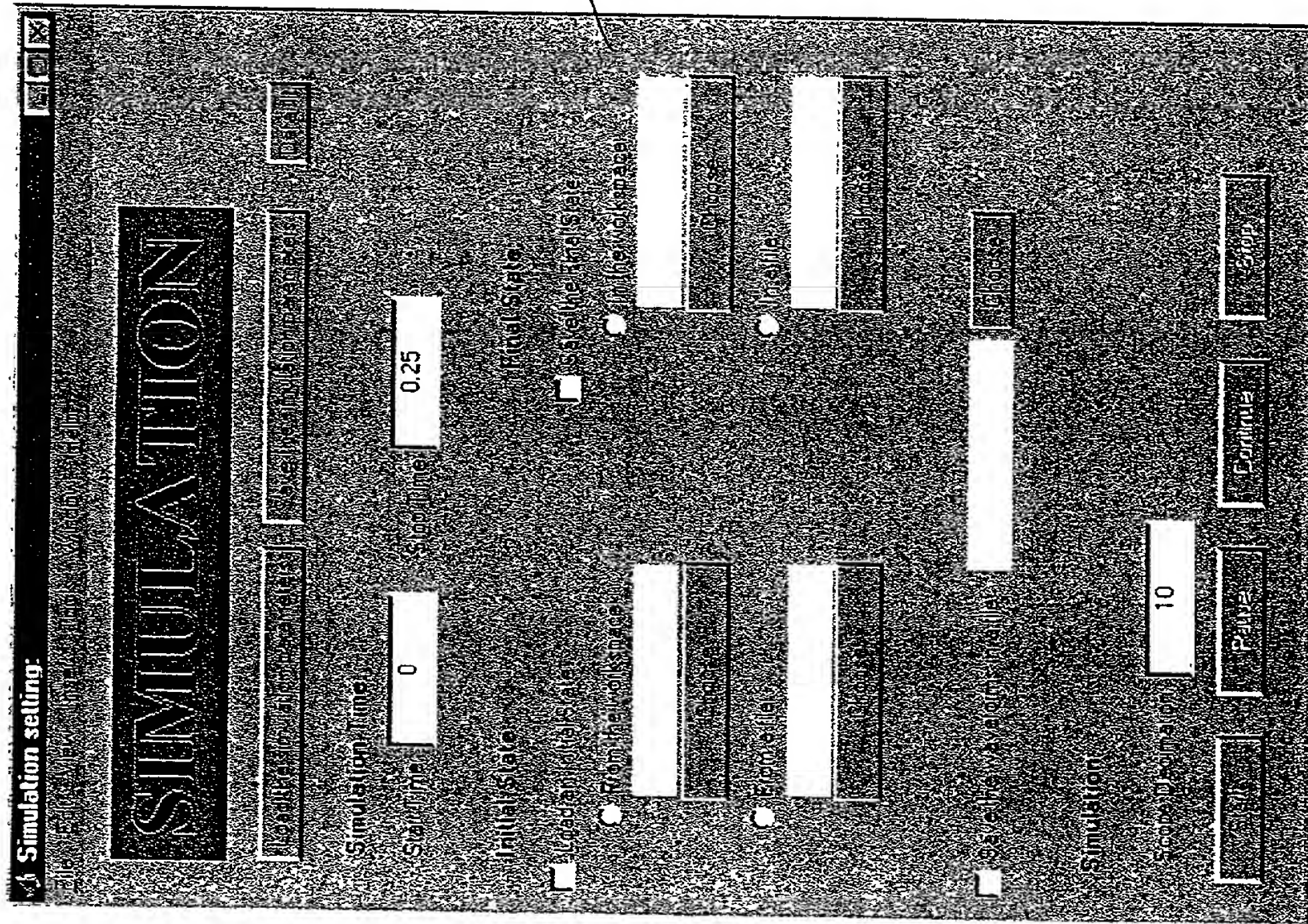
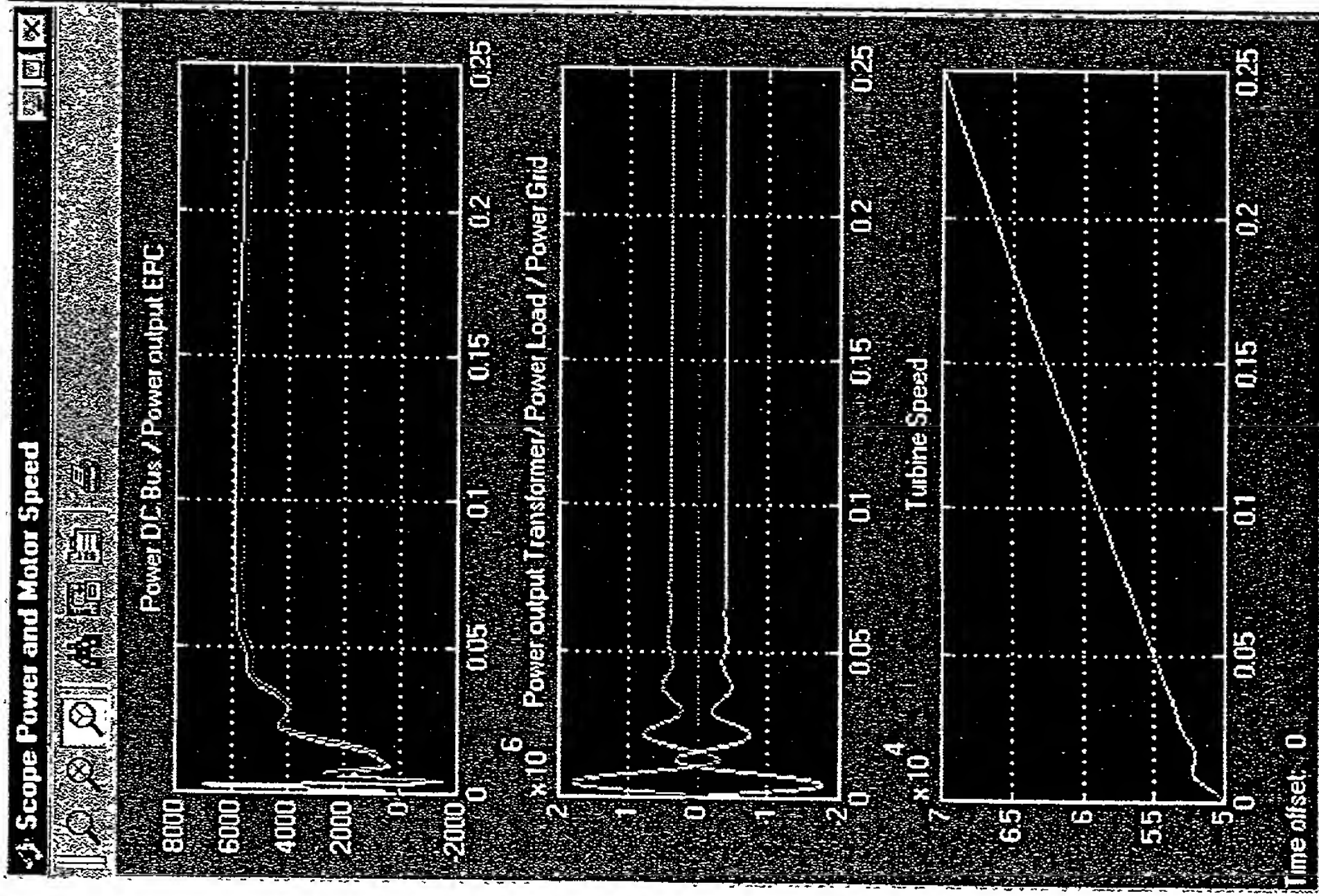


Figure 17

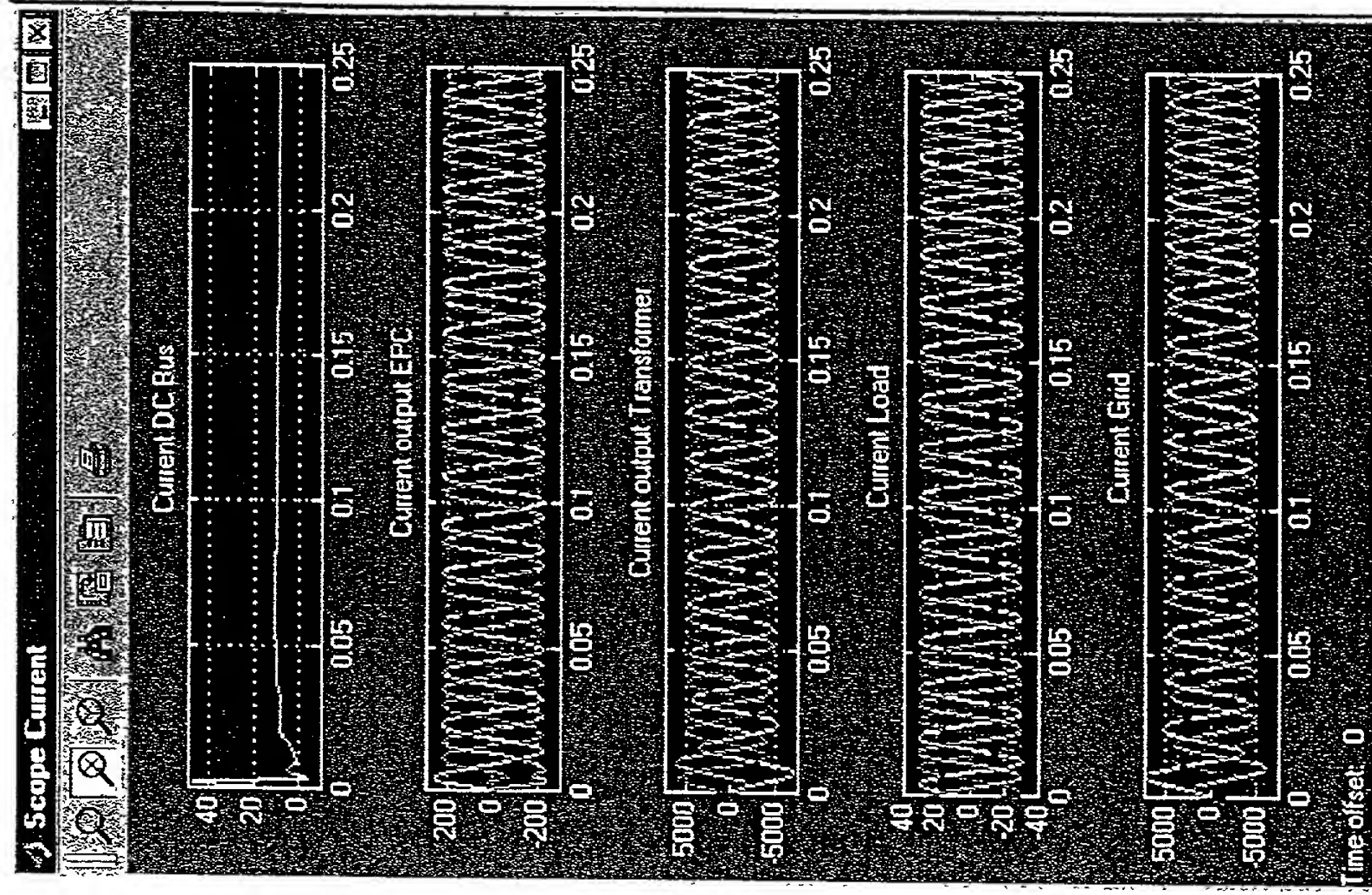




Figure 19



a.



b.